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Certificate No.: T- 5548

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-01-08-05** **Date: 13/01/2018**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/PD/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-05/01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	06/01/2018	13/01/2018	150.37 X 150.24 X 150.22	22592	8.220	388.6	17.2	17.0
2	Drain Concrete	M20	06/01/2018	13/01/2018	150.46 X 150.32 X 150.98	22617	8.298	377.7	16.7	
3	Drain Concrete	M20	06/01/2018	13/01/2018	150.26 X 150.89 X 150.23	22673	8.398	387.7	17.1	

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-08-05** **Date: 03/02/2018**

Customer : Assistant Executive Engineer, Project division, BBMP, Bangalore.

Address : Project division, BBMP, Bangalore.

Project Name : Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13

Agency : Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/PD/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-01-18

Sample ID No : 2018-01-08-05/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	06/01/2018	03/02/2018	150.42 X 150.54 X 149.99	22644	8.155	514.0	22.7	22.7
2	Drain Concrete	M20	06/01/2018	03/02/2018	151.09 X 150.33 X 150.43	22713	8.164	508.8	22.4	
3	Drain Concrete	M20	06/01/2018	03/02/2018	150.16 X 150.31 X 149.26	22571	8.134	521.4	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/01/2018

Lab ID	:	CP-2018-01-10-05
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/PD/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-18
Sample ID No	:	2018-01-10-05/01
Customer ID	:	M30 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	06/01/2018	13/01/2018	151.37 X 151.52 X 150.51	22936	8.287	548.2	23.9	24.0
2	M30 Concrete	M30	06/01/2018	13/01/2018	150.54 X 149.65 X 150.66	22528	8.254	536.2	23.8	
3	M30 Concrete	M30	06/01/2018	13/01/2018	150.87 X 150.73 X 150.22	22741	8.263	552.6	24.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-01-10-05** **Date: 03/02/2018**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/PD/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-18
Sample ID No	:	2018-01-10-05/02
Customer ID	:	M30 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	06/01/2018	03/02/2018	151.03 X 151.77 X 149.17	22922	8.109	742.7	32.4	31.8
2	M30 Concrete	M30	06/01/2018	03/02/2018	150.63 X 150.11 X 150.53	22611	8.215	705.5	31.2	
3	M30 Concrete	M30	06/01/2018	03/02/2018	150.44 X 150.53 X 150.77	22646	8.276	717.9	31.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/01/2018

Lab ID	:	CP-2018-01-10-05
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/PD/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-18
Sample ID No	:	2018-01-10-05/03
Customer ID	:	M30 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	07/01/2018	14/01/2018	150.55 X 149.27 X 150.71	22473	8.197	523.6	23.3	23.1
2	M30 Concrete	M30	07/01/2018	14/01/2018	150.16 X 150.62 X 150.77	22617	8.209	511.1	22.6	
3	M30 Concrete	M30	07/01/2018	14/01/2018	150.62 X 150.25 X 150.41	22631	8.216	529.6	23.4	

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4358

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/02/2018

Lab ID	:	CP-2018-01-10-05
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/PD/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-18
Sample ID No	:	2018-01-10-05/04
Customer ID	:	M30 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	07/01/2018	04/02/2018	148.82 X 150.66 X 150.87	22421	8.254	735.4	32.8	32.8
2	M30 Concrete	M30	07/01/2018	04/02/2018	150.66 X 149.08 X 150.66	22460	8.232	743.4	33.1	
3	M30 Concrete	M30	07/01/2018	04/02/2018	149.19 X 150.25 X 150.26	22416	8.186	728.5	32.5	

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-01-10-05** **Date: 16/01/2018**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/PD/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-18
Sample ID No	:	2018-01-10-05/05
Customer ID	:	M30 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	08/01/2018	15/01/2018	150.72 X 150.17 X 150.22	22634	8.155	529.6	23.4	23.8
2	M30 Concrete	M30	08/01/2018	15/01/2018	150.28 X 150.87 X 150.11	22673	8.298	539.6	23.8	
3	M30 Concrete	M30	08/01/2018	15/01/2018	150.16 X 150.18 X 150.29	22551	8.267	545.7	24.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-10-05** **Date: 05/02/2018**

Customer : Assistant Executive Engineer, Project division, BBMP, Bangalore.

Address : Project division, BBMP, Bangalore.

Project Name : Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13

Agency : Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/PD/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-01-18

Sample ID No : 2018-01-10-05/06

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	08/01/2018	05/02/2018	150.19 X 150.16 X 150.34	22553	8.220	712.7	31.6	31.9
2	M30 Concrete	M30	08/01/2018	05/02/2018	150.28 X 150.20 X 150.22	22572	8.273	720.0	31.9	
3	M30 Concrete	M30	08/01/2018	05/02/2018	150.43 X 150.12 X 150.33	22583	8.312	724.9	32.1	

Note:

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2017-11-20-05 **Date: 23-11-17**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer Reference	:	BBMP/EE/PD/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-17
Sample ID No	:	2017-11-20-05/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	20-11-17
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	978	978	9.78	90.22	80-100
26.5	1598	2576	25.76	74.24	55-90
9.5	1356	3932	39.32	60.68	35-65
4.75	1527	5459	54.59	45.41	25-55
2.36	1764	7223	72.23	27.77	20-40
0.425	1756	8979	89.79	10.21	10-25
0.075	942	9921	99.21	0.79	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	22.03%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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R KARTHIK RECHAN
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Quality Manager

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TEST RESULTS OF STEEL

Date: 22-11-17

Lab ID	:	CP-2017-11-20-05
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/PD/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-17
Sample ID No	:	2017-11-20-05/01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	21-11-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.391	547	668	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.611	563	676	19.0%	Satisfactory	Satisfactory

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Samples will be disposed after 30 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Asst. Executive Engineer
Project Sub Division-I
Dasarahalli Zone,
Bruhat Bangaluru Mahanagara Palike

End of Report

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-11-20-05**	**Date: 25-11-17**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.	
Address	:	Project division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13	
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010	
Customer's Reference	:	BBMP/EE/PD/WO/06/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	20-11-17	
Sample ID No	:	2017-11-20-05/02	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	21/11/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.24	100.28	1.316	4445	93.7	21.1	19.6	24.5
2	Cover Slab-2	75.36	100.33	1.322	4460	94.3	21.1	19.7	24.6
3	Cover Slab-3	75.44	100.37	1.318	4469	96.5	21.6	20.1	25.1

Note:

The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
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